

Figure 1a

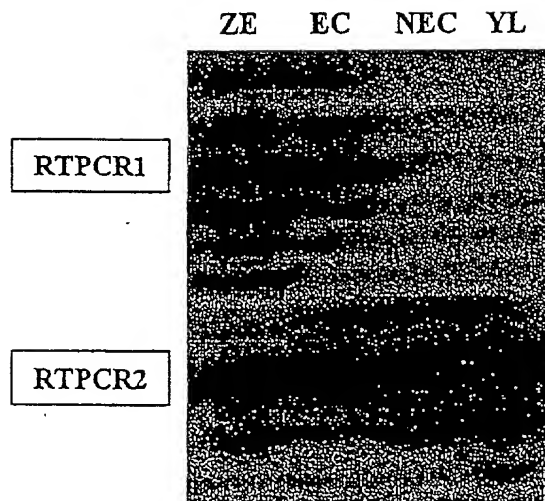


Figure 1b

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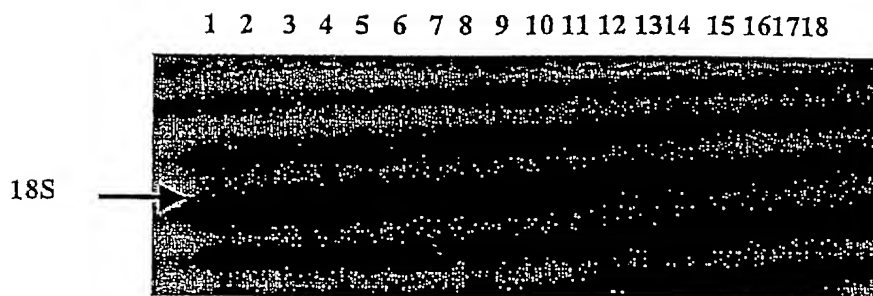
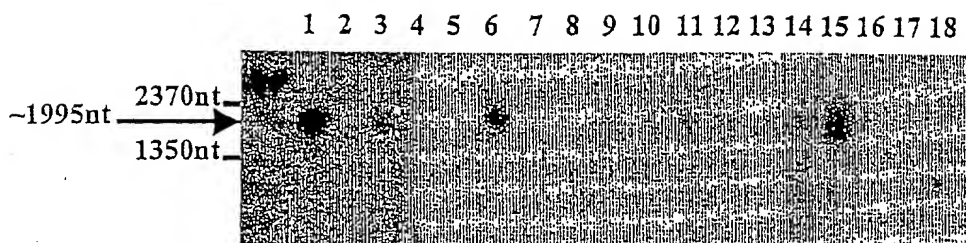


Figure 2a

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3	CAC GAG GTG AAT CGG AGC CGT TGA AAG ATG CCG GGG CTA ACG ATC	47
0	M P G L T I	14
48	GGC GAC ACG ATC CCG AAC CTG GAG GTG GAG ACC ACG CAC GGG AAG	92
15	G D T I P N L E V E T T H G K	29
93	ATC CGG ATC CAC GAC TAC GTC GGC GAT GGT TGG GCC ATC ATC TTC	137
30	I R I H D Y V G D G W A I I F	44
138	TCC CAT CCC GCG GAT TTC ACA CCC GTG TGC ACG ACG GAG CTG GGG	182
45	S H P A D F T P V C T T E L G	59
183	AAG ATG GCG GCG TAC GCG GAG GAG TTC GAG AAA AGA GGG GTG AAG	227
60	K M A A Y A E E F E K R G V K	74
228	CTG CTA GGC ATC TCC TGC GAC GAT GTC AAG TGC CAC ATG GAA TGG	272
75	L L G I S C D D V K C H M E W	89
273	ATC AAA GAC GTC GAG GCC TAC ACG CCC GGA TGT CGC GTA ACA TAT	317
90	I K D V E A Y T P G C R V T Y	104
318	CCA ATT GTA GCC GAC CCC AAG AGG GAG GTG ATC AAA CTG CTG AAC	362
105	P I V A D P K R E V I K L L N	119
363	ATG GTA GAC CCT GAG GAG AAG GAC TCA AAT GGG AAC CAG CTC CCG	407
120	M V D P E E K D S N G N Q L P	134
408	TCA CGG GCC CTT CAT ATA GTG GGC CCT GAT AAG AAG GTT AAG CTG	452
135	S R A L H I V G P D K K V K L	149
453	AGC TTT CTG TAC CCG GCG TCG ACG GGG CGG AAC ATG GAG GAG GTG	497
150	S F L Y P A S T G R N M E E V	164
498	GTC AGG GTG TTG GAG TCG CTT CAG AAG ACG ATC AAG TAT AAG GTG	542
165	V R V L E S L Q K T I K Y K V	179
543	GCG ACC CCA GCG AAC TGG AAA CCG GGG GAG CCG GTG GTG ATC TCG	587
180	A T P A N W K P G E P V V I S	194
588	CCC GAG CGT GTC CAA TGA GGA GGC CAA GCA GAT GTT CCC GCA GGG	632
195	P E R V Q *	
633	AGT TGA GAA TGT GAA TCT CCC ATC GAA GAA GGA TTA CCT CCG CTT	677
678	CAC AAA AGT CTA ATG TTG TTG GGC CGT CCG TGA TAT GTT CAT AAG	722
723	TGG TTT CTG GGG CCC GAC TGT ATA CTG TGT TGT CGT GTT ATA TGT	767
768	TTG TGT TGG TAT CAT GTA GTT TGT GCC TTA GGG GAG TTT GGA TAT	812
813	TAA TTT GTA GTT TAT GTT AAT TAT TAA AGT TTT TAC CAT GAG ATT	857
858	AAA AAA AAA AAA AAA AAA	875

Figure 3

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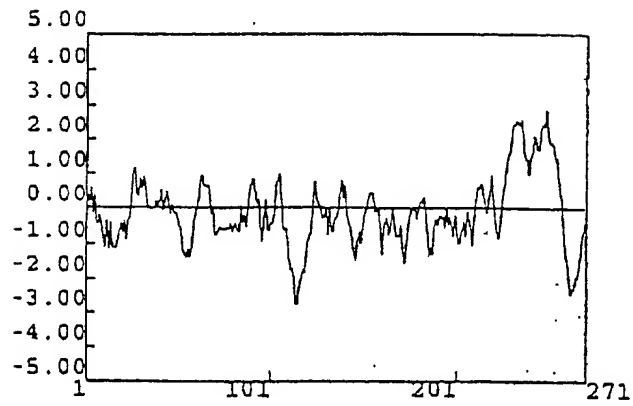


Figure 2b

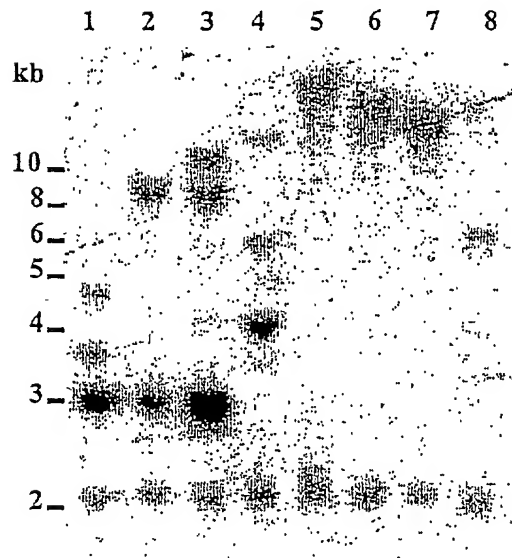


Figure 2c



Figure 4a

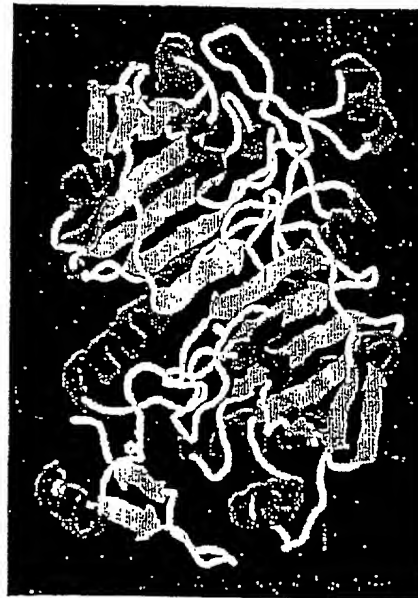


Figure 4b



Figure 4c

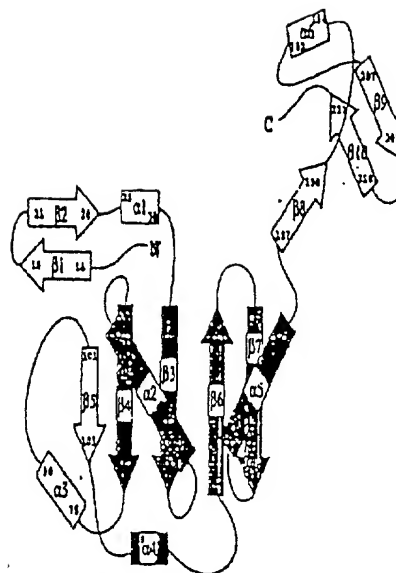


Figure 4d

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OPEm1 -----MPGLT-----
HvPer1 -----MPGLT-----
AtPer1 -----MPGIT-----
C2CPRX MASVASSTTLISSASVLPATKSSLLPSPSLSLFPTLSSSPSPSASLRSLVPLPSPQSASS
          : * :

OPEm1 -----IGDTIPNLEVETTHG-----KIRIHDYVGDGWAIIFSHPADF
HvPer1 -----IGDTVPNLELDSTHG-----KIRIHDYVGNVILFSGHGF
AtPer1 -----LGDTVPNLEVETTHD-----KFKLHDYFANSWTVLFSHPGDF
C2CPRX SRRSFAVKGQTDDLPLVGNKAPDFAEGVFDQEFIKFIKVKLSDYIGKKYVILFFLPLDF
          : * . * : * : . . . * : * : * : * : * : * : * : * : * : * :

OPEm1 TPVCTTELKGMAAYAEFEKRGVKKLGISCD--DVKCHMEWIKDVEAYTPGCRVTYPIVA
HvPer1 TPVCTTELAAMANYAKEFEKRGVKKLGISCD--DVQSHKEWTKDIEAYKPGSKVTYPIMA
AtPer1 TPVCTTELGAAMAKYAHEFDKRGVKKLGISCD--DVQSHKDWIKDIEAFNHGSKVNYPIIA
C2CPRX TFVCPTEITAFSDRYAEFEKLNTEVLGVSVDSVSVFSLAGVQTDKFGGLGDLNYPILIS
          * * . * : : * : * : : * : * : * : * : * : * : * : * : * : * :

OPEm1 DPKREVIKLLNMVDPEEKDSNGNQLPSRALHIVGPDKKVKLSFLYPASTGRNMEEVVRVL
HvPer1 DPDRSAIKQLNMVDPEKDAQG-QLPSRTLHIVGPDKVVKLSFLYPSTGRNMDEVVRVAV
AtPer1 DPNKEIIPQLNMIDPIE---NG---PSRALHIVGPDKIKLSFLYPSTGRNMDEVLRAL
C2CPRX DVTKSISKSFGVLIHDQ---G---IALRGLFIIDKEGVIOHSTIN-LGIGRSVDETMRTL
          * : . : : : * . * * . : : : * : * : * : * : * :

OPEm1 ESLQKTIKY--KVATPANWKPGEVVISP---ERVQ-----
HvPer1 DSSLTAAKH--KVATPANWKPGEVVIAPGVSDDEAKKMFPGFETADLPSKKGYLRFTK
AtPer1 DSSLMASKHNNKIATPVNWKPDQPVVISPAVSDEEAKKMFPGFKTADLPSKKGYLRHTE
C2CPRX QALQYIQEGP-GEVCPAGWKPGKSMKDPD---KLSKELFSAI-----
          : * : . * . * . : : : : : : : : : : : : : : : : :

OPEm1 --
HvPer1 V-
AtPer1 VS
C2CPRX --

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Figure 5.

Figure 6